

"Quality Improvement through Quality Data"

User Guide for the 2020 ACS NSQIP Participant Use Data File (PUF)

American College of Surgeons National Surgical Quality Improvement Program

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1. Introduction

This document is designed to accompany the 2020 Participant Use Data File (PUF) available for download on the American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP[®]) website (www.facs.org/quality-programs/acs-nsqip). The sections contained herein will provide the user with information on how to request the PUF, the contents of the data files, the data collection background, the inclusion and exclusion criteria for cases and hospitals, the data limitations, and the data point definitions and descriptions.

This user guide applies specifically to the 2020 PUF. Hospitals utilizing the PUF from a different year should refer to the user guide specifically tailored to that particular data set.

2. Data Request Process

An individual who has an official appointment at a fully enrolled site and wants to obtain a copy of the ACS NSQIP PUF can do so by visiting www.facs.org/quality-programs/acs-nsqip and following the steps listed below:

- 1. From the ACS NSQIP main page (www.facs.org/quality-programs/acs-nsqip) the requestor can scroll down to the "ACS NSQIP PUF" towards the bottom of the page. From there, you can click on the "Request PUF" link in gold font. This will take you to the PUF request page.
- 2. This will take the requestor to the Data Use Agreement. This is a 3-page document that implements the data protections of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and the ACS NSQIP Hospital Participation Agreement. Delivery of the PUF is contingent on agreement to the terms and conditions specified within the Data Use Agreement. You can read the Data Use Agreement from this page or download the 3-page document. The requestor is then required to type in their first and last name and click on "Request Data File." By clicking on "Request Data File" the requestor agrees to the terms and conditions of the Data Use Agreement.
- 3. Requestors will then be required to complete a brief online form to provide ACS with basic information about themselves, including the participating hospital in which they are currently employed and in what capacity, as well as how the requestor plans on using the PUF data. Once all of the required fields are completed, the requestor clicks "Submit."
- 4. ACS NSQIP staff will review the request in a timely manner. Program contacts at participating sites will be contacted at this time to confirm the requestor's affiliation with the hospital and confirm internal approval of the PUF request.

- 5. Following receipt and confirmation of the information submitted, an email will be sent to the requestor containing a username and password along with the URL to download the data. The web link will be active from the time of the email for 10 full days (240 hours).
- 6. The file will be available in three different formats (Text, SPSS, SAS) and depending on the connection speed should take between 5 and 30 minutes to download.
- 7. The requestor may be contacted to confirm receipt of the data file and allow for feedback on the delivery mechanism, data points contained, and data file format.

3. File Description

Each summer/fall a PUF will be made available for the previous calendar year's data. The PUF is available in one of three different formats - Text, SAS, and SPSS. In 2008, we provided an additional file that contains SAS and SPSS codes for constructing RACE variable that was available in previous years. The 2020 file contains 275 variables for each case, and a variable-by-variable description is provided starting on page 13.

A brief description of the different formats follows:

File Name	Type	Uncompressed	Description
	4-1-	File Size	Cantaina 275 HIDAA
ACC NEOLD DIJE20 44	tab	1.4.CD	Contains 275 HIPAA
ACS_NSQIP_PUF20.txt	delimited	1.4 GB	compliant variables
	TXT file		on 902,968 cases submitted from 706
	CACOO		sites in 2020.
A GG NGOID DIVEGO 71.1	SAS 9.2	5 2 CD	Same information as
ACS_NSQIP_PUF20.sas7bdat	data file	5.3 GB	stated above in SAS
			data format.
	SPSS 16.0		Same information as
ACS_NSQIP_PUF20.sav	data file	3.0 GB	stated above in TXT
			and SAS data format.
Construct_RACE_Codes.txt	Notepad	3KB	Contains SAS and
	file		SPSS codes for
			constructing RACE
			variable that was
			available in 2005,
			2006 and 2007.

4. Data Variable Updates

The "Data Variables" list begins on Page 13 of this document.

The "Variable Definition" column (as it appeared in the PUF User Guides from 2005-2014) has been removed. It has been replaced by a column titled: "Search Term in Chapter 4..."

Beginning with the 2016 PUF, abbreviated definitions have been removed from the Variable Definition field. So that investigators will have ready access to complete and authoritative variable definitions (rather than past definitions which may be incomplete and potentially misleading with respect to nuanced clinical features of importance to the investigator), the "Search Term in Chapter 4..." field now contains a search term that will locate the complete definition in Chapter 4 of the "ACS NSQIP Operations Manual" - the authoritative variable definition reference manual used by SCRs. Please be aware that Chapter 4 definitions are year specific, though dramatic changes are rare.

Variables names have been reconciled so that you can copy the entire text within an individual cell from the column titled "Search Term in Chapter 4" in the User Guide, and paste it into a search field (you can create a search field by simultaneously hitting Ctrl and F on your keyboard) in Chapter 4. Once the text is copied into the search field and enter is hit, you will see the variable definition and other information pertinent to that particular variable.

To support this new process, investigators receiving the PUF will have the opportunity to download a Chapter 4 corresponding to the specific PUF year (*beginning with data for 2015*). Appropriate definitions will continue to be provided in the "Search Term in Chapter 4..." field for those variables that are constructed specifically for the PUF and do not exist in Chapter 4.

Chapter 4 will be made available to you for download with the rest of your requested PUF files or by contacting your hospital's Surgical Clinical Reviewer (SCR). Data Use Agreements will now apply to the use and distribution of Chapter 4, as well as PUF data itself.

Beginning with the 2016 PUF, the variable, "PUFYEAR" has been added to the dataset. This variable will allow you to identify the appropriate Chapter 4 for data that has been merged across several years.

In prior years we have retained data fields for historical variables that are no longer collected and inserted missing values. Beginning this year, we are dropping all variables that are not currently collected. Thus, the number of variables included in the Essential PUF is fewer this year than in past years. Also, because the position of data fields is no longer consistent across years, it will no longer be possible to join data across years by merely concatenating files. Files will need to be merged by variable name using appropriate statistical software.

5. Data Collection Background and Data Quality

The ACS NSQIP collects data on over 150 variables, including preoperative risk factors, intraoperative variables, and 30-day postoperative mortality and morbidity outcomes for patients undergoing major surgical procedures in both the inpatient and outpatient setting. A site's trained and certified Surgical Clinical Reviewer (SCR) captures these data using a variety of methods including medical chart abstraction.

Required data variables are entered via web-based data collection to the ACS NSQIP website. Portions of the data may be automatically populated by a software program that was developed to extract data from the participating hospital's existing information systems. Requestors should contact the SCR(s) at their hospital for detailed information on how the hospital collects its ACS NSQIP data.

To ensure the data collected are of the highest quality, the ACS NSQIP has developed a host of different training mechanisms for the SCRs and conducts an Inter-Rater Reliability (IRR) Audit of selected participating sites. In addition to an initial web-based training program, the ACS NSQIP requires SCRs to complete a series of web-based training modules followed by a certification exam that must be retaken annually. The modules and certification exam focus on the program, processes, and analysis; preoperative, intraoperative, and postoperative definitions; and case studies. These modules are complemented by a growing online decision support system that ensures the SCRs have the knowledge and resources available to collect high-quality data.

The IRR Audit is a fundamental tool of ACS NSQIP to assess the quality of the data collected at participating sites. The process involves the review of multiple charts, some of which are selected randomly and others selected based on criteria designed to identify potential reporting errors. For example, cases with five or more preoperative risk factors and no reported mortality or morbidity or cases with two or fewer preoperative risk factors and reported mortality or morbidity will be selected for chart review. Operating room logs are also audited to ensure correct sampling of cases.

The combined results of the audits completed to date revealed an overall disagreement rate of approximately 2% for all assessed program variables. The ACS NSQIP has determined that an IRR Audit disagreement rate of 5% or less is acceptable. Sites that have higher than a 5% disagreement rate are not provided a hospital odds ratio in the ACS NSQIP Semiannual Report and may be required to undergo an additional audit following training and education recommendations from the ACS NSQIP.

6. Sampling Process and Case Exclusion Criteria

Sites participating in the ACS NSQIP can do so in a variety of options that cover general/vascular surgery, multispecialty surgery, or procedure targeted (reported separately). Each participation option includes a systematic sampling process that is described below.

Systematic Sampling Process

Larger institutions normally experience a significant volume of surgical cases. This presents the problem of managing an overwhelming workload. In order to prevent bias in choosing cases for assessment, a systematic sampling process was developed. An important tool to utilize while performing the systematic sampling process is the 8-Day Cycle Schedule. The 8-day cycle works as follows: If the first 'cycle' begins on a Monday, it continues through to include the following Monday (an 8-day period of time). The next cycle begins on Tuesday and continues through to include the following Tuesday. And so on. This process assures that over time cases have equal chances of being selected from each day of the week.

Note: There are some exceptions to the systematic sampling inclusion. Hospitals participating in the Small & Rural option will collect all ACS NSQIP-eligible cases at their hospital. Hospitals participating in Essentials or in the Procedure Targeted options are provided with sampling requirements specific to their site and may opt to collect more than the specified sampling requirements if resources allow.

Case Exclusion Criteria

The following exclusion criteria were applied to cases collected in 2020. For the current inclusion/exclusion criteria please contact the ACS NSQIP Clinical Support Team at clinicalsupport@acsnsqip.org.

- Minor Cases (all cases that are not considered Major)
- Patients under the age of 18 years.
- Patient for the case in question has been assigned with an ASA score of 6 (brain-death organ donors).
- Cases involving Hyperthermic Intraperitoneal Chemotherapy (HIPEC)
- Trauma cases: Any patient that meets the trauma exclusion criteria will be excluded.
- Transplant cases: For any patient who is admitted to the hospital and has a transplant procedure, that transplant procedure and any additional surgical procedure during the transplant hospitalization will be excluded.

- Cases beyond three per cycle for limited cases: For each program option (excluding Small & Rural), only a maximum of three cases from each of the below procedures should be included per 8-day cycle. Any case beyond the case limit of three for any of these procedures should be excluded.
 - Inguinal Herniorrhaphies
 - o Breast Lumpectomies
 - Laparoscopic Cholecystectomies
 - TURPs and/or TURBTs
 (This limit does not apply for Procedure Targeted sites that are targeting TURPs.)
- Cases beyond the required number per your site's contract for each cycle.
- A return to the operating room that is related to an occurrence or complication of a prior procedure
- Multiple NSQIP assessed cases within 30 days: Any patient who already has a NSQIP-assessed procedure entered within the previous 30 days at your site should be excluded.
 Only one NSQIP-assessed procedure can be abstracted patient, per 30 days, for each

Hospital Exclusion Criteria

In addition to the case inclusion/exclusion criteria, hospital inclusion/exclusion criteria are also imposed. To maintain the highest level of data quality, only cases included in the odds ratio analysis are included in the PUF. These cases go through an additional level of scrutiny as they are passed from data collection to statistical analysis. A site is excluded from the odds ratio calculations and the PUF if it fits any of the following criteria:

- Sites that exhibit issues with either data quality or 30-day follow-up may be excluded in order to ensure the integrity of PUF data
- Inter-Rater Reliability Audit disagreement rate is over 5%

7. Data Limitations

While every effort has been made to make the PUF as complete as possible, the data do have certain limitations. Some of these limitations have been deliberately introduced to safeguard the privacy of patients (such as removal of absolute dates). Other limitations are due to resource constraints (such as the collection of generic surgical variables only, except for the procedure targeted option, which is reported separately). The following items represent the most salient limitations of the data:

• Because such a wide variety of operations are tracked, the variables are necessarily generic in nature. This limitation may pose difficulties for researchers attempting in-

depth research on specific conditions or operations. However, surgical Targeted PUF datasets are now available which address target-specific predictors and outcomes for many types of operations.

- While the sex and race distributions are reasonably representative of the national surgery patient population, only patients over the age of 18 are available for assessment, so the age distribution is somewhat truncated. Patients over the age of 90 are also grouped into a 90+ category to prevent cases from being identifiable due to unique data.
- Patients are followed after surgery for 30 days. Complications or death after that period are not included. Hospitals may follow patients longer than 30 days, but this data is not reported by NSQIP.
- In order to comply with HIPAA requirements, all absolute dates have been removed. The
 most critical of these is the date of surgery, which has been reduced to year of surgery
 only. Some dates (hospital entry, dates of laboratory tests, and so on) have been recoded
 into durations e.g. Date of Admission and Date of Discharge is recoded into Hospital
 Length of Stay.
- In order to comply with the Hospital Participation Agreement (HPA) that is agreed to between the ACS and participating sites, facility identifiers as well as geographic information regarding the case have been removed. The HPA stipulates that the ACS does not identify participating sites. Site identification could be possible even with blinded identifiers through advanced statistics. A stipulation of access to the PUF is completion of the Data Use Agreement that strictly prohibits attempts to identify hospitals, health care providers, or patients.
- While many risk factors are tracked, preventative measures are not recorded which can lead to an underestimation of the risk of certain conditions when such measures are routinely taken before surgery.
- The data are submitted from hospitals that are participating in the ACS NSQIP and do not represent a statistically valid nationally representative sample.
- Most patients do not receive all possible preoperative laboratory tests, so some of these variables have a high percentage of missing values (15% to 45%, depending on the tests). This high percentage of missing data can make it problematic to use these variables in a traditional logistic regression model as well as in many other types of analysis.

This list may not include all data limitations and additional limitations may apply in future versions of the data.

Graft failure, Coma, and Peripheral Nerve Injury Data Update

As first identified and reported in December of 2014, we have identified a problem in reported results for three outcome variables that existed in the Classic program, but did not exist in Essentials, between 2011 and 2013.

As it is mandatory to report outcome variables, we have historically converted the absence of an affirmative response (i.e., missing data) to "No Complication". This otherwise appropriate procedure was mistakenly applied to three outcome variables which were dropped from Essentials beginning in 2011 (Graft failure, Coma, Peripheral Nerve Injury). This logic resulted in "No complication" being assigned to missing data coming from Essential sites where, in fact, no data was being collected for these three outcomes. For the 2013 SAR (when Classic no longer existed) this isn't much of a problem as users would clearly know that something was wrong when 100% of the cases had "No complication" (for 2014 missing values were inserted for these historical outcome variables rather than "No complication"). However for 2011 and 2012, when some sites were Essentials and some Classic, a PUF user would see a strange, precipitous, drop in event rates for these outcomes.

Because of this problem, Graft failure, Coma, and Peripheral Nerve Injury should not be considered accurate for any PUF after 2010.

8. Contact Information

All questions about the User Guide or PUF, as well as comments and suggestions for improvements are welcome and may be directed to Brian Matel, ACS NSQIP Statistical Report Manager, via email at bmatel@facs.org.

9. Frequently Asked Questions

Request Process

- Q: Who has access to this file?
- A: Any individual with an official appointment at a fully participating site will be given access to the file following completion of the Data Use Agreement and a short set of questions that are available on the website.
- Q: Is the file available to individuals from nonparticipating sites?
- A: At this time the data files are only available to individuals with official appointments at fully participating sites.
- Q: I am at a NSQIP-participating site and would like to work on a research project with others from a different site that is not participating. Will I be allowed to do that?
- A: Yes, however, the NSQIP affiliated researcher must be the lead investigator on all PUF-based research projects and is responsible for the PUF dataset, even if forwarded to someone else. The non-participating collaborator must also sign the DUA.
- Q: How do I obtain a copy of this file?
- A: Please see the "Data Request Process" on page 1 of this document for a step-by-step approach on how to do so.

Contents of the Files

- Q: What is in this file?
- A: The file contains Health Insurance Portability and Accountability Act (HIPAA) deidentified data from sites participating in the ACS NSQIP that received risk-adjusted reports in 2020. The variable name, variable label, data definition, and other pertinent information are provided in Section 10: Data Variables and Definitions.
- Q: Are site identifiers included in the database?
- A: At this time we do not provide any geographic or site-specific identification. We took this approach to ensure the privacy of both the participating sites and surgeons.
- Q: Are there surgeon-specific identifiers included in the database?
- A: At this time we do not provide any surgeon-specific information. We took this approach to ensure the privacy of both the participating sites and surgeons.

Q: Are other PUF data sets available?

A: Between Procedure Targeted and Essentials, there are a total of 77 other PUF files available for request / download:

Essentials				Procedure '	Targeted (Cont	inued)	
PUF Year	PUF Type	Cases	Sites	PUF Year	PUF Type	Cases	Sites
2005/2006	Essentials	152,490	121	2014	Hysterectomy	19,283	91
2007	Essentials	211,407	183	2015	Hysterectomy	23,360	109
2008	Essentials	271,368	211	2016	Hysterectomy	29,964	136
2009	Essentials	336,190	237	2017	Hysterectomy	34,070	147
2010	Essentials	363,431	258	2018	Hysterectomy	39,954	192
2011	Essentials	442,149	315	2019	Hysterectomy	43,857	173
2012	Essentials	543,885	374	2014	Hepatectomy	3,064	92
2013	Essentials	651,940	435	2015	Hepatectomy	3,854	105
2014	Essentials	750,397	517	2016	Hepatectomy	4,325	116
2015	Essentials	885,502	603	2017	Hepatectomy	4,505	120
2016	Essentials	1,000,393	680	2018	Hepatectomy	4,773	133
2017	Essentials	1,028,713	708	2019	Hepatectomy	5,074	141
2018	Essentials	1,020,511	722	2014	Pancreatectomy	5,187	106
2019	Essentials	1,076,441	719	2015	Pancreatectomy	6,032	120
	•			2016	Pancreatectomy	6,244	137
Procedure 7	Fargeted			2017	Pancreatectomy	6,918	142
PUF Year	PUF Type	Cases	Sites	2018	Pancreatectomy	7,248	158
2011/2012	Vascular	655	71	2019	Pancreatectomy	7,814	165
2013	Vascular	4,292	83	2016	Proctectomy	4,217	159
2014	Vascular	4,029	83	2017	Proctectomy	4,576	176
2015	Vascular	4,199	89	2018	Proctectomy	4,621	200
2016	Vascular	4,071	95	2019	Proctectomy	4,905	193
2017	Vascular	4,177	95	2016	Thyroidectomy	5,871	93
2018	Vascular	3,807	98	2017	Thyroidectomy	5,755	91
2019	Vascular	3,912	85	2018	Thyroidectomy	6,452	112
2011/2012	Colectomy	16,981	121	2019	Thyroidectomy	6,864	83
2013	Colectomy	21,505	154	2016	Esophagectomy	1,034	71
2014	Colectomy	25,262	203	2017	Esophagectomy	1,066	76
2015	Colectomy	31,307	239	2018	Esophagectomy	1,179	82
2016	Colectomy	35,908	274	2019	Esophagectomy	1,290	85
2017	Colectomy	38,139	285	2016	Appendectomy	12,376	115
2018	Colectomy	41,386	343	2017	Appendectomy	12,406	113
2019	Colectomy	47,425	336	2018	Appendectomy	12,667	131
2014	Gynecology	500	19	2019	Appendectomy	15,110	112
2015	Gynecology	492	29	2016	Hip Fracture	9,390	117
2016	Gynecology	781	33	2017	Hip Fracture	10,506	115
2017	Gynecology	1,250	41	2018	Hip Fracture	11,855	152
2018	Gynecology	1,320	46	2019	Hip Fracture	14,523	140
2019	Gynecology	1,313	41	2019	Cystectomy	2,953	107

2019

2019

Nephrectomy

Prostatectomy

7,818

8,256

117

125

- Q: Why does the PUF exclude specific dates?
- A: In order to release the PUF, certain adjustments to the data are required to ensure proper protection of patient information. To meet these requirements, we remove all elements of dates (except quarter of admission and year) for dates directly related to an individual. For more information on the 18 data elements that are required for removal, please visit http://privacyruleandresearch.nih.gov/

or

http://privacyruleandresearch.nih.gov/pdf/HIPAA_Booklet_4-14-2003.pdf.

- Q: I am the Surgeon Champion or Surgical Clinical Reviewer from a site that has records in the PUF and would like to know which specific records are ours.
- A: At this time we do not provide site identification of any cases in the PUF, even self-identification.

Values in the Data

- Q: For each of the following complications, Pneumonia, On Ventilator > 48 hours, Urinary Tract Infection, and Bleeding Transfusion, one case did not have a known duration from operation to complication. Why is that?
- A: In each of these complications the case had an invalid date which inhibited the calculation of duration. The number of days from operation to complication variable is coded as -99 for these cases.
- Q: What are the probability scores for mortality and morbidity and how often are they calculated?
- A: The probabilities of mortality and morbidity are provided in this database for all surgery cases in 2020. These probabilities are derived using hierarchical regression analysis, but based only on patient-level effects. They represent the probability (0 to 1) that a case will experience a morbidity or mortality event based on pre-existing conditions. These probabilities are calculated every six months for the previous 12 months of data so the algorithm used to generate the predicted values changes over time as does the data used to create the algorithm.
- Q: Which calculated probabilities of mortality and morbidity are supplied in this data set?
- A: The probabilities of mortality and morbidity for all surgical cases used in the risk-adjusted analysis in 2020 are provided.

- Q: Why do some of the preoperative lab values have duration from lab to operation, but a value of -99 for the lab value?
- A: The results of the lab tests can be entered manually and thus are susceptible to data entry error. Depending on the preoperative lab variable roughly 1% of the cases had invalid values and these invalid values were set to -99 to simplify analysis. It is also possible that some cases have valid lab values, but are missing duration from lab to operation variable. This discrepancy is also related to a data entry error and the program continues to improve the data collection software to minimize the potential for data entry errors.
- Q: When performing analysis on the five-digit CPT codes in the Other and Concurrent variables, how should I interpret those cases with a valid five-digit CPT code but a CPT description set to NULL?
- A: If the case has a valid five digit CPT code that procedure occurred and should be evaluated as such. The CPT description is a secondary variable and provided for convenience. In the processing of large amounts of data some descriptions are purposefully or inadvertently removed.

File Formats

- Q: In what file formats are the data available?
- A: The data files are made available in a tab delimited TXT file, an SPSS file, and a SAS file.

				e files. It is suggested that they evaluate variable categories across years and combine them in		10
sition #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
		Type		Notes: 'Variable Name:' needs to be included in Search Term;		
	DUEVEAD	Char	Vers of DUE	*Variables not included in Chap 4		
	PUFYEAR CaseID		Year of PUF Case Identification Number	*Year of PUF Variable Name:Identification Number (IDN)	+	
	SEX	Char		Variable Name:Gender	Male; Female; Non-binary	NULL = No Response
	RACE_NEW		New Race	Variable Name:Race	American Indian or Alaska Native	NULL = No Response
	TOTOL_ITEV	Orial	New Nace	Variable Name. Nace	Asian	Race combinations with low
					Black or African American	frequency=Patients with multi
					Native Hawaiian or Pacific Islander	race options selected
					White	
					Race combinations with low frequency	
					Some Other Race	
					Unknown/Not Reported	
	ETHNICITY_HISPANIC		Ethnicity Hispanic	Variable Name:Hispanic Ethnicity	Yes; No; Unknown	NULL = No Response
	PRNCPTX		Principal operative procedure CPT code description	Variable Name:Principal operative procedure CPT code description		
	CPT	Char		Variable Name:CPT® (Current Procedural Terminology) Code		
	WORKRVU INOUT		Work Relative Value Unit	*Work Relative Value Unit Variable Name:In/Out-Patient Status	O to do d to de de de	-99 = No Response NULL = No Response
	TRANST		Inpatient/outpatient Transfer status	Variable Name: Origin Status Variable Name: Origin Status	Outpatient; Inpatient From acute care hospital inpatient	NULL = No Response
	TRANST	Char	Transfer status	variable Name:Origin Status	Not transferred (admitted from home)	NULL = No Response
					Nursing home - Chronic care - Intermediate care	
					Outside emergency department	
					Transfer from other	
					Unknown	
	Age	Char	Age of patient with patients over 89 coded as 90+	Variable Name:Date of Birth	7	-99 = No Response
	AdmYR		Year of Admission	Variable Name:Hospital Admission Date		-99 = No Response
	OperYR		Year of Operation	Variable Name:Operation Date		-99 = No Response
	DISCHDEST		Discharge Destination	Variable Name:Hospital Discharge Destination	Skilled Care, Not Home	NULL = No Response
					Unskilled Facility Not Home	· ·
					Facility Which was Home	
					Home	
					Separate Acute Care	
					Rehab	
					Expired	
					Against Medical Advice (AMA)	
					Multi - level Senior Community	
					Hospice	
					Unknown	
	ANESTHES	Char	Principal anesthesia technique	Variable Name:Principal Anesthesia Technique	Epidural	NULL = No Response
					General Local	<u> </u>
					Monitored Anesthesia care (MAC) / IV Sedation	<u> </u>
					None	
					Other	
					Regional	
					Spinal	
					Unknown	
	SURGSPEC	Char	Surgical Specialty	Variable Name:Surgical Specialty	Cardiac Surgery	
		3.1	- J		General Surgery	
	1				Gynecology	
	1				Neurosurgery	
					Orthopedics	
	1				Otolaryngology (ENT)	
	1				Plastics	
	1				Thoracic	
	1				Urology	_
	1				Vascular	_
	1				Obstetrics	
	EL EGTOLIDO		First - O	March Marc Floris Communication Co. 1	Interventional Radiologist	NULL N. P
	ELECTSURG		Elective Surgery	Variable Name:Elective Surgery, Patient Coming From Home	Yes; No; Unknown	NULL = No Response
	HEIGHT	Num	Height in inches	Variable Name:Height		-99=No Response
	WEIGHT	N I	Weight in the	Variable Nameuveight	+	Units converted to inches
	WEIGHT	Num	Weight in lbs	Variable Name:weight		-99=No Response Units converted to lbs
	DIABETES	Cher	Diabetes mellitus with oral agents or insulin	Variable Name:Diabetes Mellitus Requiring Therapy with Non-Insulin Agents or Insulin	INSULIN; NO; NON-INSULIN	NULL = No Response
	SMOKE		Current smoker within one year	Variable Name:Diabetes Mellitus Requiring Therapy with Non-Insulin Agents or Insulin Variable Name:Current Smoker within One Year	Yes; No	NULL = No Response
	DYSPNEA				AT REST; MODERATE EXERTION; No	NULL = No Response NULL = No Response
	FNSTATUS2	Char	Dyspnea Functional health status Prior to Surgery	Variable Name:Dyspnea Variable Name:Functional Health Status	Independent; Partially Dependent; Totally Dependent; Unknown	NULL = No Response NULL = No Response
	VENTILAT		Ventilator dependent	Variable Name: Ventilator Dependent	Yes; No	NULL = No Response
	HXCOPD		History of severe COPD	Variable Name:COPD (Severe)	Yes; No	NULL = No Response
	ASCITES		Ascites	Variable Name: COPD (Severe) Variable Name: Ascites within 30 Days Prior to Surgery	Yes; No	NULL = No Response NULL=No Response
	HXCHF		Heart failure (CHF) in 30 days before surgery	Variable Name:Congestive Heart Failure	Yes; No	NULL = No Response
	1.5.5."	Orial		Tanasio Harrio Congestive Fleart Fallare	100,110	TOLE = No Response

				In	h	
Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
		Type		Notes: 'Variable Name:' needs to be included in Search Term;		
				*Variables not included in Chap 4		
29	RENAFAIL	Char	Acute renal failure (pre-op)	Variable Name:Acute Renal Failure	Yes; No	NULL = No Response
30	DIALYSIS		Currently on dialysis (pre-op)	Variable Name:Currently Requiring or On Dialysis	Yes; No	NULL = No Response
31	DISCANCR		Disseminated cancer	Variable Name:Disseminated cancer	Yes; No	NULL = No Response
32	WNDINF		Open wound/wound infection	Variable Name:Open Wound (with or without Infection)	Yes; No	NULL = No Response
33	STEROID		Immunosuppressive Therapy	Variable Name:Steroid/Immunosuppressant for a Chronic Condition	Yes; No	NULL = No Response
34	WTLOSS	Char	Malnourishment	Variable Name: Malnourishment	Yes; No	NULL = No Response
35	BLEEDDIS	Char	Bleeding disorders	Variable Name:Bleeding disorders	Yes; No	NULL = No Response
36	TRANSFUS	Char	Preop Transfusion of >= 1 unit of whole/packed RBCs in 72 hours prior to	Variable Name:Preop Transfusions (RBC within 72 Hours Prior to Surgery Start Time)	Yes; No	NULL = No Response
			surgery			
37	PRSEPIS		Systemic Sepsis	Variable Name:Sepsis within 48 Hours Prior to Surgery	SIRS; Sepsis; Septic Shock; None	NULL=No Response
38	DPRNA	Num	Days from Na Preoperative Labs to Operation	*Days from Na Preoperative Labs to Operation		-99 = Lab value not obtained or No
00	DDDDIN		Decree Dilling Decree of the Late Constitution	*D (DIN D		Response
39	DPRBUN	Num	Days from BUN Preoperative Labs to Operation	*Days from BUN Preoperative Labs to Operation		-99 = Lab value not obtained or No
40	DPRCREAT	Num	Days from Creatinine Preoperative Labs to Operation	*Days from Creatinine Preoperative Labs to Operation		Response -99 = Lab value not obtained or No
40	DPRCREAT	Num	Days from Creatinine Preoperative Labs to Operation	Days from Creatinine Preoperative Labs to Operation		Response
41	DPRALBUM	Num	Days from Albumin Preoperative Labs to Operation	*Days from Albumin Preoperative Labs to Operation		-99 = Lab value not obtained or No
41	DPRALBUM	Num	Days from Albumin Preoperative Labs to Operation	Days from Albumin Preoperative Labs to Operation		Response
42	DPRBILI	Num	Days from Bilirubin Preoperative Labs to Operation	*Days from Bilirubin Preoperative Labs to Operation		-99 = Lab value not obtained or No
42	DIRBILI	INGIII	Days from Dillidoin Freoperative Labs to Operation	Days from Dilli ubili Freoperative Labs to Operation		Response
43	DPRSGOT	Num	Days from SGOT Preoperative Labs to Operation	*Days from SGOT Preoperative Labs to Operation		-99 = Lab value not obtained or No
	DI 1.0001	Num	Days from 300 i Freoperative Labs to Operation	Days non-3301 Freuperative Labs to Operation		Response
44	DPRALKPH	Num	Days from ALKPHOS Preoperative Labs to Operation	*Days from ALKPHOS Preoperative Labs to Operation		-99 = Lab value not obtained or No
44	DEKALKEN	Nulli	Days Iron ALKENOS Freoperative Labs to Operation	Days Iron ALKEROS Fleoperative Labs to Operation		Response
45	DPRWBC	Num	Days from WBC Preoperative Labs to Operation	*Days from WBC Preoperative Labs to Operation		-99 = Lab value not obtained or No
40	DEKWEC	INUITI	Days from WBC Freoperative Labs to Operation	Days none was reoperative Labs to Operation		Response
46	DPRHCT	Num	Days from HCT Preoperative Labs to Operation	*Days from HCT Preoperative Labs to Operation		-99 = Lab value not obtained or No
40	DEKINCI	INUITI	Days from HCT Freoperative Labs to Operation	Days from HCT Preoperative Labs to Operation		Response
47	DPRPLATE	Num	Days from PlateCount Preoperative Labs to Operation	*Days from PlateCount Preoperative Labs to Operation		-99 = Lab value not obtained or No
41	DERFLATE	Nulli	Days from FlateCount Freoperative Labs to Operation	Days from FlateCount Freoperative Labs to Operation		Response
48	DPRPTT	Num	Days from PTT Preoperative Labs to Operation	*Days from PTT Preoperative Labs to Operation		-99 = Lab value not obtained or No
40	DEKETT	INUITI	Days non FTT Freoperative Labs to Operation	Days nom FTT Freoperative Labs to Operation		Response
49	DPRPT	Num	Days from PT Preoperative Labs to Operation	*Days from PT Preoperative Labs to Operation		-99 = Lab value not obtained or No
49	DEKET	Nulli	Days from F1 Freoperative Labs to Operation	Days from FT Freoperative Labs to Operation		Response
50	DPRINR	Num	Days from INR Preoperative Labs to Operation	*Days from INR Preoperative Labs to Operation		-99 = Lab value not obtained or No
50	DEKINK	INUITI	Days from the Preoperative Labs to Operation	Days non-live Preoperative Labs to Operation		Response
E1	PRSODM	Num	Pre-operative serum sodium	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
51	I KOODW	INGIII	re-operative serum soulum	variable Name.r reoperative Lab value information		Response
52	PRBUN	Num	Pre-operative BUN	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
52	FRBON	INGIII	rie-operative bott	variable Name.r reoperative Lab value information		Response
53	PRCREAT	Num	Pre-operative serum creatinine	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
00	. Honer		The operative seram erealisms	Validation responsive Eda Valida Information		Response
54	PRALBUM	Num	Pre-operative serum albumin	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
· .	110125011		To operative continuation	Tanaba Tanaba Tooporati o Eab Tanab Information		Response
55	PRBILI	Num	Pre-operative total bilirubin	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
00			The operative total simusin	Validation responsive Eda Valida Information		Response
56	PRSGOT	Num	Pre-operative SGOT	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
						Response
57	PRALKPH	Num	Pre-operative alkaline phosphatase	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
		1				Response
58	PRWBC	Num	Pre-operative WBC	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
	-	1	· · · · ·			Response
59	PRHCT	Num	Pre-operative hematocrit	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
			·	· ·		Response
60	PRPLATE	Num	Pre-operative platelet count	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
		L	<u> </u>	•		Response
61	PRPTT	Num	Pre-operative PTT	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
			·	•		Response
62	PRINR	Num	Pre-operative International Normalized Ratio (INR) of PT values	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
						Response
63	PRPT	Num	Pre-operative PT	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
						Response
64	OTHERPROC1		Other Procedure 1	Variable Name:Other Procedure		NULL = No Procedure
65	OTHERCPT1		Other CPT Code 1	Variable Name:Other Procedure		NULL = No Procedure
66	OTHERWRVU1	Num	Other Work Relative Value Unit 1	*Other Work Relative Value Unit 1		-99 = No Procedure/No Response
67	OTHERPROC2		Variable Name:Other Procedure 2	Variable Name:Other Procedure		NULL = No Procedure
68	OTHERCPT2	Char	Other CPT Code 2	Variable Name:Other Procedure		NULL = No Procedure
69	OTHERWRVU2	Num	Other Work Relative Value Unit 2	*Other Work Relative Value Unit 2		-99 = No Procedure/No Response
70	OTHERPROC3		Variable Name:Other Procedure 3	Variable Name:Other Procedure		NULL = No Procedure
71	OTHERCPT3		Other CPT Code 3	Variable Name:Other Procedure		NULL = No Procedure
	OTHERWRVU3	Num	Other Work Relative Value Unit 3	*Other Work Relative Value Unit 3		-99 = No Procedure/No Response
72	OTHERWRY03		Variable Name:Other Procedure 4	Variable Name:Other Procedure		NULL = No Procedure

Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
		Type		Notes: 'Variable Name:' needs to be included in Search Term;		
,	OTHERCPT4	Char	Other CPT Code 4	*Variables not included in Chap 4 Variable Name:Other Procedure		NULL = No Procedure
4 5	OTHERCP14 OTHERWRVU4		Other Work Relative Value Unit 4	*Other Work Relative Value Unit 4		-99 = No Procedure/No Response
3	OTHERPROC5		Variable Name:Other Procedure 5	Variable Name:Other Procedure		NULL = No Procedure
7	OTHERCPT5		Other CPT Code 5	Variable Name:Other Procedure		NULL = No Procedure
3	OTHERWRVU5		Other Work Relative Value Unit 5	*Other Work Relative Value Unit 5		-99 = No Procedure/No Response
9	OTHERPROC6	Char	Variable Name:Other Procedure 6	Variable Name:Other Procedure		NULL = No Procedure
)	OTHERCPT6		Other CPT Code 6	Variable Name:Other Procedure		NULL = No Procedure
1	OTHERWRVU6		Other Work Relative Value Unit 6	*Other Work Relative Value Unit 6		-99 = No Procedure/No Response
3	OTHERPROC7	Char	Variable Name:Other Procedure 7	Variable Name:Other Procedure		NULL = No Procedure
1	OTHERCPT7 OTHERWRVU7		Other Variable Name:Other Procedure 7 Other Work Relative Value Unit 7	Variable Name:Other Procedure *Other Work Relative Value Unit 7		NULL = No Procedure -99 = No Procedure/No Response
+	OTHERWRYU7		Variable Name:Other Procedure 8	Variable Name:Other Procedure		NULL = No Procedure
6	OTHERCPT8		Other Variable Name:Other Procedure 8	Variable Name:Other Procedure		NULL = No Procedure
7	OTHERWRVU8		Other Work Relative Value Unit 8	*Other Work Relative Value Unit 8		-99 = No Procedure/No Response
8	OTHERPROC9		Variable Name:Other Procedure 9	Variable Name:Other Procedure		NULL = No Procedure
19	OTHERCPT9	Char	Other Variable Name:Other Procedure 9	Variable Name:Other Procedure		NULL = No Procedure
0	OTHERWRVU9		Other Work Relative Value Unit 9	*Other Work Relative Value Unit 9		-99 = No Procedure/No Response
1	OTHERPROC10		Variable Name:Other Procedure 10	Variable Name:Other Procedure		NULL = No Procedure
2	OTHERCPT10		Other Variable Name:Other Procedure 10	Variable Name:Other Procedure		NULL = No Procedure
4	OTHERWRVU10 CONCURR1	Num	Other Work Relative Value Unit 10 Concurrent Procedure 1	*Other Work Relative Value Unit 10 Variable Name:Concurrent Procedure		-99 = No Procedure/No Response NULL = No Procedure
<u>4</u> 5	CONCURR1 CONCPT1	Char	Concurrent Procedure 1 Concurrent CPT 1	Variable Name:Concurrent Procedure Variable Name:Concurrent Procedure		NULL = No Procedure NULL = No Procedure
16	CONWRVU1	Num	Concurrent Work Relative Value Unit 1	*Concurrent Work Relative Value Unit 1		-99 = No Procedure/No Response
17	CONCURR2	Char	Concurrent Procedure 2	Variable Name:Concurrent Procedure	1	NULL = No Procedure
18	CONCPT2		Concurrent CPT 2	Variable Name:Concurrent Procedure		NULL = No Procedure
99	CONWRVU2	Num	Concurrent Work Relative Value Unit 2	*Concurrent Work Relative Value Unit 2		-99 = No Procedure/No Response
100	CONCURR3	Char	Concurrent Procedure 3	Variable Name:Concurrent Procedure		NULL = No Procedure
101	CONCPT3		Concurrent CPT 3	Variable Name:Concurrent Procedure		NULL = No Procedure
02	CONWRVU3		Concurrent Work Relative Value Unit 3	*Concurrent Work Relative Value Unit 3		-99 = No Procedure/No Response
03	CONCURR4		Concurrent Procedure 4	Variable Name:Concurrent Procedure		NULL = No Procedure
04	CONCPT4		Concurrent CPT 4	Variable Name:Concurrent Procedure		NULL = No Procedure
05	CONWRVU4	Num	Concurrent Work Relative Value Unit 4	*Concurrent Work Relative Value Unit 4		-99 = No Procedure/No Response
106 107	CONCURR5		Concurrent Procedure 5	Variable Name:Concurrent Procedure		NULL = No Procedure
108	CONCPT5 CONWRVU5	Num	Concurrent CPT 5 Concurrent Work Relative Value Unit 5	Variable Name:Concurrent Procedure *Concurrent Work Relative Value Unit 5		NULL = No Procedure -99 = No Procedure/No Response
109	CONCURR6	Char	Concurrent Procedure 6	Variable Name:Concurrent Procedure		NULL = No Procedure
110	CONCPT6	Char	Concurrent CPT 6	Variable Name:Concurrent Procedure		NULL = No Procedure
111	CONWRVU6	Num	Concurrent Work Relative Value Unit 6	*Concurrent Work Relative Value Unit 6		-99 = No Procedure/No Response
112	CONCURR7	Char	Concurrent Procedure 7	Variable Name:Concurrent Procedure		NULL = No Procedure
113	CONCPT7	Char	Concurrent CPT 7	Variable Name:Concurrent Procedure		NULL = No Procedure
114	CONWRVU7	Num	Concurrent Work Relative Value Unit 7	*Concurrent Work Relative Value Unit 7		-99 = No Procedure/No Response
115	CONCURR8	Char	Concurrent Procedure 8	Variable Name:Concurrent Procedure		NULL = No Procedure
116	CONCPT8	Char	Concurrent CPT 8	Variable Name:Concurrent Procedure		NULL = No Procedure
117	CONWRVU8	Num	Concurrent Work Relative Value Unit 8	*Concurrent Work Relative Value Unit 8		-99 = No Procedure/No Response
I18 I19	CONCURR9 CONCPT9	Char	Concurrent Procedure 9 Concurrent CPT 9	Variable Name:Concurrent Procedure Variable Name:Concurrent Procedure		NULL = No Procedure NULL = No Procedure
20	CONWRVU9	Num	Concurrent CPT 9 Concurrent Work Relative Value Unit 9	*Concurrent Work Relative Value Unit 9		-99 = No Procedure/No Response
121	CONCURR10	Char	Concurrent Procedure 10	Variable Name:Concurrent Procedure	1	NULL = No Procedure/No Response
122	CONCPT10	Char	Concurrent CPT 10	Variable Name:Concurrent Procedure	1	NULL = No Procedure
123	CONWRVU10	Num	Concurrent Work Relative Value Unit 10	*Concurrent Work Relative Value Unit 10		-99 = No Procedure/No Response
124	EMERGNCY	Char	Emergency case	Variable Name:Emergency Case	Yes; No	NULL = No Response
125	WNDCLAS	Char	Wound classification	Variable Name: Wound Classification	1-Clean	NULL = No Response
					2-Clean/Contaminated	•
		1			3-Contaminated	
					4-Dirty/Infected	
126	ASACLAS	Char	ASA classification	Variable Name:ASA Classification	1 -No Disturb	NULL= No Response
					2 -Mild Disturb	
					3 -Severe Disturb	
					4 -Life Threat 5 -Moribund	
		1			None assigned	
27	MORTPROB	Num	Estimated Probability of Mortality	*Probability of mortality is developed for all cases based on a logistic regression analysis	rione assigned	System missing = case was not
		140111	Zournated Frobubility of Mortality	using the patient's preopeartive characteristics as the independent or predictive variables.		included in the logistic regression
		1		Only cases included in the logistic regression analysis will have the associated probabilities	ĺ	analysis
		1		of mortality.		
128	MORBPROB	Num	Estimated Probability of Morbidity	*Probability of morbidity is developed for all cases based on a logistic regression analysis		System missing = case was not
			* *	using the patient's preopeartive characteristics as the independent or predictive variables.		included in the logistic regression
				Only cases included in the logistic regression analysis will have the associated probabilities		analysis
				of morbidity.		
129	OPTIME HDISDT		Total operation time	*Total operation time in minutes		-99 = No Response -99 = No Response
130			Hospital discharge Year	Variable Name:Acute Hospital Discharge Date		

Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
r osition #	variable (varie	Туре	Valiable Label	Notes: 'Variable Name:' needs to be included in Search Term;	variable Options at Littly	Comments
		.,,,,		*Variables not included in Chap 4		
131	YRDEATH	Num	Year of death	Variable Name:Date of Death		-99 = Patient alive at 30 days
						Notes: include death >30days of
						procedure
132	TOTHLOS		Length of total hospital stay	*Length of total hospital stay	1,00,1	OO N. D.
134	AdmQtr HtoODay		Quarter of Admission Days from Hospital Admission to Operation	Variable Name:Hospital Admission Date *Days from Hospital Admission to Operation	1; 2; 3; 4	-99 = No Response -99 = No Response
135	NSUPINFEC		Number of Superficial Incisional SSI Occurrences	*Number of Superficial Incisional SSI Occurrences		-99 = No Response
136	SUPINFEC		Occurrences Superficial surgical site infection	Variable Name:Superficial Incisional SSI	No Complication; Superficial Incisional SSI	
137	SSSIPATOS		Superficial Incisional SSI PATOS	Variable Name:Superficial Incisional SSI – PATOS	Yes: No	NULL = No response
138	DSUPINFEC		Days from Operation until Superficial Incisional SSI Complication	*Days from Operation until Superficial Incisional SSI Complication		
139	NWNDINFD	Num	Number of Deep Incisional SSI Occurrences	*Number of Deep Incisional SSI Occurrences		
140	WNDINFD	Char	Occurrences Deep Incisional SSI	Variable Name:Deep Incisional SSI	Deep Incisional SSI; No Complication	
141	DSSIPATOS	Char	Deep Incisional SSI PATOS	Variable Name:Deep Incisional SSI – PATOS	Yes; No	NULL = No response
142	DWNDINFD	Num	Days from Operation until Deep Incisional SSI Complication	*Days from Operation until Deep Incisional SSI Complication		-99 = Patient did not experience this
142	DWINDINI D	Nulli	Days from Operation until Deep Incisional 331 Complication	Days from Operation until Deep Incisional 331 Complication		complication at or before 30 days
						post operation
143	NORGSPCSSI	Num	Number of Organ/Space SSI Occurrences	*Number of Organ/Space SSI Occurrences		post operation
144	ORGSPCSSI		Occurrences Organ Space SSI	Variable Name:Organ/Space SSI	Organ/Space SSI; No Complication	
145	OSSIPATOS		Organ/Space SSI PATOS	Variable Name:Organ/Space SSI – PATOS	Yes; No	NULL = No response
146	DORGSPCSSI	Num	Days from Operation until Organ/Space SSI Complication	*Days from Operation until Organ/Space SSI Complication		-99 = Patient did not experience thi
						complication at or before 30 days
						post operation
147	NDEHIS		Number of Wound Disruption Occurrences	*Number of Wound Disruption Occurrences	Wayned Disposition No Consuling Co.	
148 149	DEHIS DDEHIS	Num	Occurrences Wound Disrupt	Variable Name:Wound Disruption	Wound Disruption; No Complication	00 Patient did not averagiones thi
149	DDENIS	Num	Days from Operation until Wound Disruption Complication	*Days from Operation until Wound Disruption Complication		-99 = Patient did not experience thi complication at or before 30 days
						post operation
150	NOUPNEUMO	Num	Number of Pneumonia Occurrences	*Number of Pneumonia Occurrences		post operation
151	OUPNEUMO		Occurrences Pneumonia	Variable Name:Pneumonia	Pneumonia; No Complication	
152	PNAPATOS		Pneumonia PATOS	Variable Name:Pneumonia – PATOS	Yes; No	NULL = No response
153	DOUPNEUMO	Num	Days from Operation until Pneumonia Complication	*Days from Operation until Pneumonia Complication		-99 = Patient did not experience thi
						complication at or before 30 days
						post operation
154	NREINTUB		Number of Unplanned Intubation Occurrences	*Number of Unplanned Intubation Occurrences		
155 156	REINTUB		Occurrences Unplanned Intubation	Variable Name:Unplanned Intubation	Unplanned Intubation; No Complication	00 Deticat did act conscious thi
156	DREINTUB	Num	Days from Operation until Unplanned Intubation Complication	*Days from Operation until Unplanned Intubation Complication		-99 = Patient did not experience this complication at or before 30 days
						post operation
157	NPULEMBOL	Num	Number of Pulmonary Embolism Occurrences	*Number of Pulmonary Embolism Occurrences		
158	PULEMBOL	Char	Occurrences Pulmonary Embolism	Variable Name:Pulmonary Embolism	Pulmonary Embolism; No Complication	
159	DPULEMBOL	Num	Days from Operation until Pulmonary Embolism Complication	*Days from Operation until Pulmonary Embolism Complication		-99 = Patient did not experience thi
						complication at or before 30 days
160						
161		N	North and Co. Marifolds and Co.			post operation
	NFAILWEAN		Number of On Ventilator > 48 Hours Occurrences	*Number of On Ventilator > 48 Hours Occurrences	On Vantilates assets than 40 Hause Na Complication	post operation
	FAILWEAN	Char	Occurrences Ventilator > 48Hours	Variable Name:On Ventilator > 48 Hours	On Ventilator greater than 48 Hours; No Complication	
162	FAILWEAN VENTPATOS	Char Char	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS	On Ventilator greater than 48 Hours; No Complication Yes; No	NULL = No response
	FAILWEAN	Char	Occurrences Ventilator > 48Hours	Variable Name:On Ventilator > 48 Hours		NULL = No response -99 = Patient did not experience thi
162	FAILWEAN VENTPATOS	Char Char	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS		NULL = No response -99 = Patient did not experience thi complication at or before 30 days
162	FAILWEAN VENTPATOS	Char Char Num	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS		NULL = No response -99 = Patient did not experience th
162 163 164 165	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF	Char Char Num Num Char	Occurrences Ventilator > 48 Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS *Days from Operation until On Ventilator > 48 Hours Complication *Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis		NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation
162 163 164	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF	Char Char Num Num Char	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS *Days from Operation until On Ventilator > 48 Hours Complication *Number of Progressive Renal Insufficiency Occurrences	Yes; No	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation
162 163 164 165	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF	Char Char Num Num Char	Occurrences Ventilator > 48 Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS *Days from Operation until On Ventilator > 48 Hours Complication *Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis	Yes; No	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days
162 163 164 165	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RRNAINSF DRENAINSF	Char Char Num Num Char Num	Occurrences Ventilator > 48Hours PATOS On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Complication	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS 'Days from Operation until On Ventilator > 48 Hours Complication "Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Progressive Renal Insufficiency Complication	Yes; No	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi
162 163 164 165 166	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL	Char Char Num Num Char Num	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Number of Acute Renal Failure Occurrences	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS *Days from Operation until On Ventilator > 48 Hours Complication *Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis *Days from Operation until Progressive Renal Insufficiency Complication *Number of Acute Renal Failure Occurrences	Yes; No Progressive Renal Insufficiency; No Complication	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days
162 163 164 165 166 167 168	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL OPRENAFL	Char Char Num Num Char Num Num	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Complication Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours — PATOS *Days from Operation until On Ventilator > 48 Hours Complication *Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis *Days from Operation until Progressive Renal Insufficiency Complication *Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis	Yes; No	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation
162 163 164 165 166	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL	Char Char Num Num Char Num Num	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Number of Acute Renal Failure Occurrences	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS *Days from Operation until On Ventilator > 48 Hours Complication *Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis *Days from Operation until Progressive Renal Insufficiency Complication *Number of Acute Renal Failure Occurrences	Yes; No Progressive Renal Insufficiency; No Complication	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation
162 163 164 165 166 167 168	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL OPRENAFL	Char Char Num Num Char Num Num	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Complication Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours — PATOS *Days from Operation until On Ventilator > 48 Hours Complication *Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis *Days from Operation until Progressive Renal Insufficiency Complication *Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis	Yes; No Progressive Renal Insufficiency; No Complication	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days
162 163 164 165 166 167 168	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RRNAINSF DRENAINSF NOPRENAFL DOPRENAFL DOPRENAFL	Char Char Num Num Char Num Num Char Num	Occurrences Ventilator > 48Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Complication Number of Acute Renal Failure Occurrences Occurrences Acute Renal Failure Occurrences Days from Operation until Acute Renal Failure Complication	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours — PATOS 'Days from Operation until On Ventilator > 48 Hours Complication "Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Progressive Renal Insufficiency Complication "Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Acute Renal Failure Complication	Yes; No Progressive Renal Insufficiency; No Complication	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation
162 163 164 165 166 167 168 169	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL OPRENAFL	Char Char Num Num Char Num Num Char Num Num Num Num Num Num Num Num	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Complication Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours — PATOS *Days from Operation until On Ventilator > 48 Hours Complication *Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis *Days from Operation until Progressive Renal Insufficiency Complication *Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis	Progressive Renal Insufficiency; No Complication Acute Renal Failure; No Complication	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days
162 163 164 165 166 167 168 169	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL OPRENAFL DOPRENAFL NURNINFEC	Char Char Num Num Char Num Num Char Num Num Char Num Char	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail Days from Operation until Acute Renal Failure Complication Number of Uninary Tract infection Occurrences	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS *Days from Operation until On Ventilator > 48 Hours Complication *Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis *Days from Operation until Progressive Renal Insufficiency Complication *Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis *Days from Operation until Acute Renal Failure Complication *Number of Urinary Tract infection Occurrences	Yes; No Progressive Renal Insufficiency; No Complication	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation
162 163 164 165 166 167 168 169 170	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF OPENAFL OOPRENAFL DOPRENAFL UDOPRENAFL URNINFEC URNINFEC	Char Char Num Num Char Num Num Char Num Char Num Char Char Char Char	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail Days from Operation until Acute Renal Failure Complication Number of Urinary Tract infection Occurrences Occurrences Urinary Tract Infection Occurrences	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours — PATOS *Days from Operation until On Ventilator > 48 Hours Complication *Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis *Days from Operation until Progressive Renal Insufficiency Complication *Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis *Days from Operation until Acute Renal Failure Complication *Number of Urinary Tract infection Occurrences Variable Name:Progressive Tract Infection Occurrences Variable Name:Progressive Renal Infection Occurrences Variable Name:Urinary Tract Infection Occurrences	Progressive Renal Insufficiency; No Complication Acute Renal Failure; No Complication Urinary Tract Infection; No Complication	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation NULL = No response
162 163 164 165 166 167 168 169 170 170 171 171	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL DOPRENAFL DOPRENAFL NURNINFEC URNINFEC URNINFEC UTIPATOS	Char Char Num Num Char Num Num Char Num Char Num Char Char Char Char	Occurrences Ventilator > 48Hours PATOS On Ventilator > 49 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Complication Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail Days from Operation until Acute Renal Failure Complication Number of Urinary Tract infection Occurrences Occurrences Urinary Tract Infection UTI PATOS UTI PATOS	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours — PATOS 'Days from Operation until On Ventilator > 48 Hours Complication 'Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Progressive Renal Insufficiency Complication 'Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Acute Renal Failure Complication 'Number of Urinary Tract infection Occurrences Variable Name:Urinary Tract Infection Variable Name:Urinary Tract Infection Variable Name:Urin = PATOS	Progressive Renal Insufficiency; No Complication Acute Renal Failure; No Complication Urinary Tract Infection; No Complication	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation NULL = No response
162 163 164 165 166 167 168 169 170 171 172 173	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL DOPRENAFL DOPRENAFL URNINFEC URNINFEC URNINFEC URNINFEC URNINFEC DURNINFEC DURNINFEC	Char Char Num Num Char Num Num Char Num Num Char Num Num Num Num Num	Occurrences Ventilator > 48Hours On Ventilator > 48 Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Complication Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail Days from Operation until Acute Renal Failure Complication Number of Urinary Tract infection Occurrences Occurrences Urinary Tract Infection UTI PATOS Days from Operation until Urinary Tract Infection Complication	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS "Days from Operation until On Ventilator > 48 Hours Complication "Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis "Days from Operation until Progressive Renal Insufficiency Complication "Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis "Days from Operation until Acute Renal Failure Complication "Number of Urinary Tract infection Occurrences Variable Name:Urinary Tract Infection Variable Name:Urinary Tract Infection Variable Name:Uri – PATOS "Days from Operation until Urinary Tract Infection Complication	Progressive Renal Insufficiency; No Complication Acute Renal Failure; No Complication Urinary Tract Infection; No Complication	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation
162 163 164 165 166 167 168 169 170 171 172 173	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL DOPRENAFL DOPRENAFL URNINFEC URNINFEC UTIPATOS DURNINFEC NORSCYA	Char Char Num Num Char Num Num Char Num Char Num Num Char Num	Occurrences Ventilator > 48Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Occurrences Days from Operation until Progressive Renal Insufficiency Complication Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail Days from Operation until Acute Renal Failure Complication Number of Urinary Tract infection Occurrences Occurrences Urinary Tract Infection UTI PATOS Days from Operation until Urinary Tract Infection Complication Number of Stroke/CVA Occurrences	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS 'Days from Operation until Or 94 Hours – PATOS 'Days from Operation until Or 94 Hours – PATOS 'Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Progressive Renal Insufficiency Complication 'Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Acute Renal Failure Complication 'Number of Urinary Tract infection Occurrences Variable Name:Urinary Tract Infection Occurrences Variable Name:UTI – PATOS 'Days from Operation until Urinary Tract Infection Complication 'Number of Stroke/CVA Occurrences	Progressive Renal Insufficiency; No Complication Acute Renal Failure; No Complication Urinary Tract Infection; No Complication Yes; No	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation
162 163 164 165 166 167 168 169 170 171 172 173	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL OPRENAFL DOPRENAFL UNINFEC URNINFEC URNINFEC UTIPATOS DURNINFEC NCNSCVA CNSCVA	Char Char Num Num Char Num Char Num Char Num Char Num Num Char Num Num Char Num Char Char Num Char Char	Occurrences Ventilator > 48Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Complication Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail Days from Operation until Acute Renal Failure Complication Number of Urinary Tract infection Occurrences Occurrences Urinary Tract Infection UTI PATOS Days from Operation until Urinary Tract Infection Complication Number of Stroke/CVA Occurrences CVA/Stroke with neurological deficit	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours — PATOS 'Days from Operation until Or Ventilator > 48 Hours Complication 'Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Acute Renal Failure Complication 'Number of Urinary Tract Infection Occurrences Variable Name:Urin = PATOS 'Days from Operation until Urinary Tract Infection Complication 'Number of Stroke/CVA Occurrences Variable Name:Urin = PATOS 'Days from Operation until Urinary Tract Infection Complication 'Number of Stroke/CVA Occurrences Variable Name:Stroke/CVA Occurrences Variable Name:Stroke/CVA Occurrences Variable Name:Stroke/CVA Occurrences	Progressive Renal Insufficiency; No Complication Acute Renal Failure; No Complication Urinary Tract Infection; No Complication	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation
162 163 164 165 166 167 168 169 170 171 172 173	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL DOPRENAFL DOPRENAFL URNINFEC URNINFEC UTIPATOS DURNINFEC NORSCYA	Char Char Num Num Char Num Char Num Char Num Char Num Num Char Num Num Char Num Char Char Num Char Char	Occurrences Ventilator > 48Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Occurrences Days from Operation until Progressive Renal Insufficiency Complication Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail Days from Operation until Acute Renal Failure Complication Number of Urinary Tract infection Occurrences Occurrences Urinary Tract Infection UTI PATOS Days from Operation until Urinary Tract Infection Complication Number of Stroke/CVA Occurrences	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours – PATOS 'Days from Operation until Or 94 Hours – PATOS 'Days from Operation until Or 94 Hours – PATOS 'Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Progressive Renal Insufficiency Complication 'Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Acute Renal Failure Complication 'Number of Urinary Tract infection Occurrences Variable Name:Urinary Tract Infection Occurrences Variable Name:UTI – PATOS 'Days from Operation until Urinary Tract Infection Complication 'Number of Stroke/CVA Occurrences	Progressive Renal Insufficiency; No Complication Acute Renal Failure; No Complication Urinary Tract Infection; No Complication Yes; No	NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation -99 = Patient did not experience thi complication at or before 30 days post operation NULL = No response -99 = Patient did not experience thi complication at or before 30 days post operation
162 163 164 165 166 167 168 169 170 171 172 173	FAILWEAN VENTPATOS DFAILWEAN NRENAINSF RENAINSF DRENAINSF NOPRENAFL OPRENAFL DOPRENAFL UNINFEC URNINFEC URNINFEC UTIPATOS DURNINFEC NCNSCVA CNSCVA	Char Char Num Num Char Num Char Num Char Num Char Num Num Char Num Num Char Num Char Char Num Char Char	Occurrences Ventilator > 48Hours PATOS Days from Operation until On Ventilator > 48 Hours Complication Number of Progressive Renal Insufficiency Occurrences Occurrences Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Days from Operation until Progressive Renal Insufficiency Complication Number of Acute Renal Failure Occurrences Occurrences Acute Renal Fail Days from Operation until Acute Renal Failure Complication Number of Urinary Tract infection Occurrences Occurrences Urinary Tract Infection UTI PATOS Days from Operation until Urinary Tract Infection Complication Number of Stroke/CVA Occurrences CVA/Stroke with neurological deficit	Variable Name:On Ventilator > 48 Hours Variable Name:On Ventilator > 48 Hours — PATOS 'Days from Operation until Or Ventilator > 48 Hours Complication 'Number of Progressive Renal Insufficiency Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Number of Acute Renal Failure Occurrences Variable Name:Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis 'Days from Operation until Acute Renal Failure Complication 'Number of Urinary Tract Infection Occurrences Variable Name:Urin = PATOS 'Days from Operation until Urinary Tract Infection Complication 'Number of Stroke/CVA Occurrences Variable Name:Urin = PATOS 'Days from Operation until Urinary Tract Infection Complication 'Number of Stroke/CVA Occurrences Variable Name:Stroke/CVA Occurrences Variable Name:Stroke/CVA Occurrences Variable Name:Stroke/CVA Occurrences	Progressive Renal Insufficiency; No Complication Acute Renal Failure; No Complication Urinary Tract Infection; No Complication Yes; No	NULL = No response -99 = Patient did not experience this complication at or before 30 days post operation -99 = Patient did not experience this complication at or before 30 days post operation -99 = Patient did not experience this complication at or before 30 days post operation NULL = No response -99 = Patient did not experience this complication at or before 30 days

Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
00111011111	Turiusio riumo	Туре	Tariable East.	Notes: 'Variable Name:' needs to be included in Search Term;	ranasio optiono at 2111.	
		.,,,,		*Variables not included in Chap 4		
78	CDARREST	Char	Occurrences Cardiac Arrest Requiring CPR	Variable Name:Intraoperative or Postoperative Cardiac Arrest Requiring CPR	Cardiac Arrest Requiring CPR; No Complication	
79	DCDARREST	Num	Days from Operation until Cardiac Arrest Requiring CPR Complication	*Days from Operation until Cardiac Arrest Requiring CPR Complication	Cardiac Arrest (Cequining OF IX, No Complication	-99 = Patient did not experience the
13	DODAKKEST	Num	Days from Operation until Cardiac Arrest Requiring Cr R Complication	Days nom Operation until Cardiac Arrest Requiring of R Complication		complication at or before 30 days
						post operation
90	NCDMI	Nium	Number of Myocardial Infarction Occurrences	*Number of Myocardial Infarction Occurrences		post operation
81					M dial Information No Committee time	
82	CDMI		Occurrences Myocardial Infarction	Variable Name:Intraoperative or Postoperative Myocardial Infarction	Myocardial Infarction; No Complication	00 Deticat did aut aversiones th
182	DCDMI	Num	Days from Operation until Myocardial Infarction Complication	*Days from Operation until Myocardial Infarction Complication		-99 = Patient did not experience th
						complication at or before 30 days
100	NOTURIER	N	N I (Di i T (. i O	*Non-least Chicago Control Con		post operation
183	NOTHBLEED	Num	Number of Bleeding Transfusions Occurrences	*Number of Bleeding Transfusions Occurrences	T () () () () ()	
184	OTHBLEED	Char	Occurrences Bleeding Transfusions	Variable Name:Transfusion Intra/Postop (RBC within the First 72 Hrs of Surgery Start Time)	Transfusions/Intraop/Postop; No Complication	
	0.071101.550					
185	DOTHBLEED	Num	Days from Operation until Bleeding Transfusions Complication	*Days from Operation until Bleeding Transfusions Complication		-99 = Patient did not experience th
						complication at or before 30 days
						post operation
186	NOTHDVT			*Number of DVT/Thrombophlebitis Occurrences		
187	OTHDVT		Occurrences DVT/Thrombophlebitis	Variable Name: Vein Thrombosis Requiring Therapy	DVT Requiring Therapy; No Complication	
88	DOTHDVT	Num	Days from Operation until DVT/Thrombophlebitis Complication	*Days from Operation until DVT/Thrombophlebitis Complication		-99 = Patient did not experience th
						complication at or before 30 days
						post operation
189	NOTHSYSEP	Num	Number of Sepsis Occurrences	*Number of Sepsis Occurrences		
190	OTHSYSEP			Variable Name:Sepsis	Sepsis; No Complication	
191	SEPSISPATOS		Sepsis PATOS	Variable Name:Sepsis – PATOS	Yes; No	NULL = No Response
192	DOTHSYSEP	Num	Days from Operation until Sepsis Complication	*Days from Operation until Sepsis Complication		-99 = Patient did not experience th
			1 ' '			complication at or before 30 days
						post operation
193	NOTHSESHOCK	Num	Number of Septic Shock Occurrences	*Number of Septic Shock Occurrences		poor operation
194	OTHSESHOCK		Occurrences Septic Shock	Variable Name:Septic Shock	Septic Shock; No Complication	
195	SEPSHOCKPATOS		Septic Shock PATOS	Variable Name:Septic Shock – PATOS	Yes; No	NULL = No Response
196	DOTHSESHOCK			*Days from Operation until Septic Shock Complication	168, 110	
190	DOTHSESHOCK	Num	Days from Operation until Septic Shock Complication	Days from Operation until Septic Shock Complication		-99 = Patient did not experience th
						complication at or before 30 days
407	PODIAO	01	Destruction (IOD 0)	Verial II News Best and in Pierra in (IOD Oct.)		post operation
197	PODIAG		Post-op diagnosis (ICD 9)	Variable Name:Postoperative Diagnosis (ICD Code)		
198	PODIAGTX		Post-op Diagnosis Text	Variable Name:Postoperative Diagnosis (ICD Code)		
199	PODIAG10		Post-op diagnosis (ICD 10)	Variable Name:Postoperative Diagnosis (ICD Code)		
200	PODIAGTX10		Post-op Diagnosis Text	Variable Name:Postoperative Diagnosis (ICD Code)		
201	RETURNOR		Return to OR	Variable Name:Unplanned Reoperation	Yes; No	NULL= No Response
202	DOpertoD	Num	Days from Operation to Death	*Days from Operation to Death		-99 = Patient did not die at or befo
						30 days post operation Notes:
						deaths within 30 days of procedure
						included only
203	DOptoDis	Num	Days from Operation to Discharge	*Days from Operation to Discharge		-99 = No Response
204	STILLINHOSP	Char		Variable Name:Still in Hospital > 30 Days	Yes; No	NULL = No Response
205	REOPERATION1	Char		Variable Name:Unplanned Reoperation	Yes; No	NULL=No Response
206	RETORPODAYS	Num	Days from principal operative procedure to Unplanned Reoperation 1	*Days from principal operative procedure to Unplanned Reoperation 1		-99 = Patient did not experience
				,,		Unplanned Reoperation 1
207	REOPORCPT1	Char	Unplanned Reoperation 1 CPT	Variable Name:Unplanned Reoperation		NULL = No Response
208	RETORRELATED	Char		Variable Name:Unplanned Reoperation	Yes	NULL = No Response
200	INC TORRICLATED	Gridi	Onplanned recoperation in related to principal operative procedure	variable Name. Oripidiffied Neoperation	No.	NOLL = NO Nesponse
	1	1				
	1	1			Unknown	
200	DEODODICDO4	Chr	Harland December 4 ICD 0	Mariable Managlianiana d Deservation		NUUL Na Daaraaa
209	REOPORICD91		Unplanned Reoperation 1 ICD-9	Variable Name:Unplanned Reoperation	<u> </u>	NULL = No Response
210	REOPOR1ICD101	Char		Variable Name:Unplanned Reoperation	N. N.	
211	REOPERATION2		Unplanned Reoperation 2	Variable Name:Unplanned Reoperation	Yes; No	NULL=No Response
212	RETOR2PODAYS	Num	Days from principal operative procedure to Unplanned Reoperation 2	*Days from principal operative procedure to Unplanned Reoperation 2		-99 = Patient did not experience
	1					Unplanned Reoperation 2
213	REOPOR2CPT1	Char	Unplanned Reoperation 2 CPT	Variable Name:Unplanned Reoperation		NULL = No Response
214	RETOR2RELATED	Char	Unplanned Reoperation 2 related to principal operative procedure	Variable Name:Unplanned Reoperation	Yes	NULL = No Response
					No	
					Unknown	
215	REOPOR2ICD91	Char	Unplanned Reoperation 2 ICD-9	Variable Name:Unplanned Reoperation		NULL = No Response
216	REOPOR2ICD101		Unplanned Reoperation 2 ICD-10	Variable Name: Unplanned Reoperation		NULL = No Response
217	REOPERATION3		More than 2 unplanned reoperations	Variable Name:Unplanned Reoperation	Yes; No	NULL=No Response
218	READMISSION1		Any Readmission 1	Variable Name:Hospital Readmission	Yes; No	NULL=No Response
218 219	READMISSION1 READMPODAYS1				100, 110	
۷ I کا ک	KEADINIPODAT 5 I	Num	Days from principal operative procedure to Any Readmission 1	*Days from principal operative procedure to Any Readmission 1		-99 = Patient did not experience A
	1			Washing Name II and a Broad and a state of the state of t	lv v	Readmission 1
220	LINDI ANNIEDDE ADMICCION					
220	UNPLANNEDREADMISSION READMRELATED1		Unplanned Readmission 1 Unplanned Readmission 1 likely related to the principal procedure	Variable Name:Hospital Readmission Variable Name:Hospital Readmission	Yes; No Yes: No	NULL = No Response NULL = No Response

Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
POSITION #	Variable Name	Type	Valiable Label	Notes: 'Variable Name:' needs to be included in Search Term;	variable Options at Entry	Comments
		·ypc		*Variables not included in Chap 4		
222	READMSUSPREASON1	Char	Readmission related suspected reason 1	Variable Name:Hospital Readmission	Superficial Incisional SSI	NULL = No Response
	TE TE MICOUTTE TO CITY	O.iai	Trodumicolom rolated edoposied reacon i	Variable Name: respirat residentesion	Deep Incisional SSI	Trobbe - Tro Trooperios
					Organ/Space SSI	
					Wound Disruption	
					Pneumonia	
					Unplanned Intubation	
					Pulmonary Embolism	
					On Ventilator > 48 hours	
					Progressive Renal Insufficiency	
					Acute Renal Failure	
					Urinary Tract Infection	
					CVA	
					Cardiac Arrest Requiring CPR	
					Myocardial Infarction	
					Bleeding Requiring Transfusion (72h of surgery start time)	
					Vein Thrombosis Requiring Therapy	
					Sepsis Sepsis	
					Septic Shock	
		1			Other (list ICD 9 code)	
		1			Other (list ICD 9 code) Other (list ICD 10 code)	
		1			C. diff	
223	BEADMINDEL CUCDA	Char	Readmission unrelated augmented recent 4	Variable Name: Haspital Readmission		NULL - No Persons
23	READMUNRELSUSP1	Cnar	Readmission unrelated suspected reason 1	Variable Name:Hospital Readmission	Superficial Incisional SSI	NULL = No Response
		1			Deep Incisional SSI	
		1			Organ/Space SSI	
		1			Wound Disruption	
		1			Pneumonia	
					Unplanned Intubation	
					Pulmonary Embolism	
					On Ventilator > 48 hours	
					Progressive Renal Insufficiency	
					Acute Renal Failure	
					Urinary Tract Infection	
					CVA	
					Cardiac Arrest Requiring CPR	
					Myocardial Infarction	
					Bleeding Requiring Transfusion (72h of surgery start time)	
					Vein Thrombosis Requiring Therapy	
					Sepsis Septic Shock	
					Other (list ICD 9 code)	
					Other (list ICD 10 code)	
	25.21.25.125.125.1				C. diff	
24	READMRELICD91		Readmission related ICD-9 code 1	Variable Name:Hospital Readmission		NULL = No Response
225	READMRELICD101		Readmission related ICD-10 code 1	Variable Name:Hospital Readmission		NULL = No Response
226	READMUNRELICD91		Readmission unrelated ICD-9 code 1	Variable Name:Hospital Readmission		NULL = No Response
27	READMUNRELICD101		Readmission unrelated ICD-10 code 1	Variable Name:Hospital Readmission		NULL = No Response
28	READMISSION2		Any Readmission 2	Variable Name:Hospital Readmission	Yes; No	
29	READMPODAYS2	Num	Days from principal operative procedure to Any Readmission 2	*Days from principal operative procedure to Any Readmission 2		-99 = Patient did not experience Ar
						Readmission 2
30	UNPLANNEDREADMISSION2		Unplanned Readmission 2	Variable Name:Hospital Readmission	Yes;No	NULL = No Response
31	READMRELATED2		Unplanned Readmission 2 likely related to the principal procedure	Variable Name:Hospital Readmission	Yes;No	NULL = No Response
32	READMSUSPREASON2	Char	Readmission related suspected reason 2	Variable Name:Hospital Readmission	See "Readmission related suspected reason 1'	NULL = No Response
33	READMUNRELSUSP2		Readmission unrelated suspected reason 2	Variable Name:Hospital Readmission	See "Readmission unrelated suspected reason 1'	NULL = No Response
34	READMRELICD92		Readmission related ICD-9 code 2	Variable Name:Hospital Readmission		NULL = No Response
35	READMRELICD102		Readmission related ICD-10 code 2	Variable Name:Hospital Readmission		NULL = No Response
36	READMUNRELICD92		Readmission unrelated ICD-9 code 2	Variable Name:Hospital Readmission		NULL = No Response
37	READMUNRELICD102		Readmission unrelated ICD-10 code 2	Variable Name:Hospital Readmission		NULL = No Response
38	READMISSION3		Any Readmission 3	Variable Name:Hospital Readmission	Yes; No	
39	READMPODAYS3		Days from principal operative procedure to Any Readmission 3	*Days from principal operative procedure to Any Readmission 3	100,140	-99 = Patient did not experience A
40	UNPLANNEDREADMISSION3	Char	Unplanned Readmission 3	Variable Name: Hagnital Bandmission	Yes:No	Readmission 3
				Variable Name:Hospital Readmission		NULL = No Response
11	READMRELATED3		Unplanned Readmission 3 likely related to the principal procedure	Variable Name:Hospital Readmission	Yes; No	NULL = No Response
12	READMSUSPREASON3		Readmission related suspected reason 3	Variable Name:Hospital Readmission	See "Readmission related suspected reason 1'	NULL = No Response
43	READMUNRELSUSP3		Readmission unrelated suspected reason 3	Variable Name:Hospital Readmission	See "Readmission unrelated suspected reason 1'	NULL = No Response
44	READMRELICD93		Readmission related ICD-9 code 3	Variable Name:Hospital Readmission		NULL = No Response
45	READMRELICD103	Char	Readmission related ICD-10 code 3	Variable Name:Hospital Readmission		NULL = No Response
16	READMUNRELICD93		Readmission unrelated ICD-9 code 3	Variable Name:Hospital Readmission		NULL = No Response
17	READMUNRELICD103		Readmission unrelated ICD-10 code 3	Variable Name:Hospital Readmission		NULL = No Response
48	READMISSION4		Any Readmission 4	Variable Name:Hospital Readmission	Yes; No	
49	READMPODAYS4		Days from principal operative procedure to Any Readmission 4	*Days from principal operative procedure to Any Readmission 4		-99 = Patient did not experience Ar
-		1	.,			Readmission 4
		Chor	Unplanned Readmission 4	Variable Name:Hospital Readmission	Yes: No	NULL = No Response
50	I INPLANNEDREADMISSIONA					
250 251	UNPLANNEDREADMISSION4 READMRELATED4		Unplanned Readmission 4 likely related to the principal procedure	Variable Name:Hospital Readmission	Yes: No	NULL = No Response

Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
		Type		Notes: 'Variable Name:' needs to be included in Search Term;		
				*Variables not included in Chap 4		
252	READMSUSPREASON4	Char	Readmission related suspected reason 4	Variable Name:Hospital Readmission	See "Readmission related suspected reason 1'	NULL = No Response
53	READMUNRELSUSP4	Char	Readmission unrelated suspected reason 4	Variable Name:Hospital Readmission	See "Readmission unrelated suspected reason 1'	NULL = No Response
254	READMRELICD94	Char	Readmission related ICD-9 code 4	Variable Name:Hospital Readmission	·	NULL = No Response
255	READMRELICD104	Char	Readmission related ICD-10 code 4	Variable Name:Hospital Readmission		NULL = No Response
256	READMUNRELICD94	Char	Readmission unrelated ICD-9 code 4	Variable Name:Hospital Readmission		NULL = No Response
257	READMUNRELICD104	Char	Readmission unrelated ICD-10 code 4	Variable Name:Hospital Readmission		NULL = No Response
258	READMISSION5	Char	Any Readmission 5	Variable Name:Hospital Readmission	Yes; No	
259	READMPODAYS5	Num	Days from principal operative procedure to Any Readmission 5	*Days from principal operative procedure to Any Readmission 5		-99 = Patient did not experience A Readmission 5
260	UNPLANNEDREADMISSION5	Char	Unplanned Readmission 5	Variable Name:Hospital Readmission	Yes; No	NULL = No Response
261	READMRELATED5	Char	Unplanned Readmission 5 likely related to the principal procedure	Variable Name:Hospital Readmission	Yes; No	NULL = No Response
262	READMSUSPREASON5	Char	Readmission related suspected reason 5	Variable Name:Hospital Readmission	See "Readmission related suspected reason 1'	NULL = No Response
263	READMUNRELSUSP5	Char	Readmission unrelated suspected reason 5	Variable Name:Hospital Readmission	See "Readmission unrelated suspected reason 1'	NULL = No Response
264	READMRELICD95	Char	Readmission related ICD-9 code 5	Variable Name:Hospital Readmission		NULL = No Response
265	READMRELICD105	Char	Readmission related ICD-10 code 5	Variable Name:Hospital Readmission		NULL = No Response
266	READMUNRELICD95	Char	Readmission unrelated ICD-9 code 5	Variable Name:Hospital Readmission		NULL = No Response
267	READMUNRELICD105	Char	Readmission unrelated ICD-10 code 5	Variable Name:Hospital Readmission		NULL = No Response
268	WOUND CLOSURE	Char	Surgical wound closure	Variable Name:Surgical Wound(s) Closure	All layers of incision (deep and superficial) fully closed	NULL=No Response
	_			• • • • • • • • • • • • • • • • • • • •	Only deep layers closed; superficial left open	·
					No layers of incision are surgically closed	
269	PODIAG_OTHER	Char	Other postoperative occurrence(ICD 9)	Variable Name:Other Postoperative Occurrence (ICD Code)		NULL=No Response
270	PODIAG_OTHER10	Char	Other postoperative occurrence(ICD 10)	Variable Name:Other Postoperative Occurrence (ICD Code)		NULL=No Response
271	ANESTHES_OTHER	Char	Additional anesthesia technique	Variable Name:Additional Anesthesia Technique(s)	General	NULL = No Response
			·		Epidural	
					Spinal	
					Regional	
					Local	
					Monitored Anesthesia Care/IV Sedation	
					Other	
272	OTHCDIFF	Char	Occurrences Clostridium Difficile (C.diff) Colitis	Variable Name:Postoperative Clostridium Difficile (C.diff) Colitis	No Complication; C. diff	
273	NOTHCDIFF	Num	Number of C. diff Occurrences	*Number of C. diff Colitis Occurrences		
274	DOTHCDIFF	Num	Days from operation until C.diff Complication	*Days from operation till C. diff Colitis Complication		 -99=Patient did not experience complication at or before 30 days post operations
275	EOL WDCARE	Char	End of Life/Withdrawal of Care	Variable Name: End of life/Withdrawal of Care	Yes: No	
276	BLEED UNITS TOT		Postop total transfusion amount	Variable Name: Blood Transfusion		-99=No Transfusion

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